

ABSTRACT

A vehicle AC generator includes a rotor, a stator, a frame supporting the rotor and the stator, a rear cover having an air intake window, a rectifying unit including a pair of cooling fins and a plurality rectifier elements, a brush unit including a pair of brushes and a brush-holder, a connector case having a terminal for transmitting and receiving electric signals and an IC regulator. The pair of cooling fins has a common cutout section forming an accommodation space between the frame and rear cover, and the connector case is disposed in the accommodation space so as to form a cooling air passage connecting the air intake window around the connector case. The IC regulator is disposed in the cooling air passage to face the rear cover so that the heatsink is disposed opposite the air intake window. Therefore, the IC regulator is cooled effectively and direct heat radiation on the IC regulator from the cooling fins and the brush holder is prevented.